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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,507	09/25/2006	Minoru Akaishi	052550	4605
	7590 06/03/201 , HATTORI, DANIEL	EXAMINER		
	TICUT AVENUE, NV	KEMMERLE III, RUSSELL J		
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1791	
			NOTIFICATION DATE	DELIVERY MODE
			06/03/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/539,507	AKAISHI ET AL.	
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Examiner	Art Unit	

	RUSSELL J. KEMMERLE III	1791					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress				
THE REPLY FILED <u>12 May 2010</u> FAILS TO PLACE THIS APPI	LICATION IN CONDITION FOR AL	LOWANCE.					
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appelor Continued Examination (RCE) in compliance with 37 Coperiods:	replies: (1) an amendment, affidavit eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request				
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f	dvisory Action, or (2) the date set forth in ter than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE f).	g date of the final rejection FIRST REPLY WAS FII	on. LED WITHIN TWO				
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount on hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as				
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the					
3. The proposed amendment(s) filed after a final rejection, be a considered and amendment (a). They raise new issues that would require further core (b). They raise the issue of new matter (see NOTE below (c). They are not deemed to place the application in bett appeal; and/or. (d). They present additional claims without canceling a considered and the	nsideration and/or search (see NOTw); ter form for appeal by materially rec	E below); ducing or simplifying the					
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.12 5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) would be all non-allowable claim(s).	 owable if submitted in a separate, t	imely filed amendmer	nt canceling the				
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1 and 2. Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE		be entered and an ex	xpianation or				
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea and was not earlier presented. Se	ll and/or appellant fails ee 37 CFR 41.33(d)(1)	s to provide a).				
 The affidavit or other evidence is entered. An explanation <u>REQUEST FOR RECONSIDERATION/OTHER</u> 	n of the status of the claims after er	ntry is below or attach	ed.				
 The request for reconsideration has been considered but <u>See Continuation Sheet.</u> 	t does NOT place the application in	condition for allowan	ce because:				
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☐ Other:	PTO/SB/08) Paper No(s)						
/Steven P. Griffin/ Supervisory Patent Examiner, Art Unit 1791							

Continuation of 11. does NOT place the application in condition for allowance because: Applicants first argue that the prior art fails to teach a method as currently claimed using diamond powder having an average grain size of 200 nm or less. This is not found to be persuasive as Applicants appear to be reading additional requirements and limitations in to the particle size disclosure of the prior art. With respect to davies Applicants argue the a larger average particle size is taught based on an unsupported assumption of a normal particle size distribution and specific examples while ingnoring the broader teachings. Davies discloses that the lower limit of particle sizes is about 100 nm, the plain reading of this would include embodiments where the average particle size was below 200 nm, and may include all 100 nm particles. Similarly, Akashi discloses the use of diamond having a particle size of less than 500 nm. The plain reading of this would include embodiments where diamond powder was used having an average particle size of less than 200 nm.

Applicants next allege that the present invention has produced unexpected results, namely a Vickers hardness of 85 GPa or more. However this allegation appears to be based on the Vickers hardness of a body produced in a different article by Akaishi, not the article used in the rejection in the previous Office actions.

Applicants arguments with respect to claim 2 appear to be based on the heat and pressurization conditions not being met by Davies. This is not found to be persuasive since as discussed in the previous Office actions, these conditions are met by Akaishi.